

20000321.qrp v01\_n767.qrl.20000321

Date: Tue, 21 Mar 2000 19:03:10 EST

From: qrp-l@Lehigh.EDU

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: QRP-L digest 1767

QRP-L Digest 1767

Topics covered in this issue include:

- 1) [66154] TT-2 Technical Question  
by "Barry L. Geipel AD6HR" <bgeipel@primenet.com>
- 2) [66155] RE: most enjoyed QRP construction project  
by Dave Barrett <DBarrett@creo.com>
- 3) [66156] Re: HB: Low Phase Noise VFO  
by "George T. Baker" <w5yr@att.net>
- 4) [66157] Re: most enjoyed QRP construction project  
by "Joe Spencer" <kk5na@quadj.com>
- 5) [66158] Re: most enjoyed QRP construction project  
by "Victor Blackwell" <victor@brecnet.com>
- 6) [66159] Re: most enjoyed QRP construction project  
by Michael Melland <badger@vbe.com>
- 7) [66160] FS: Unbuilt Wilderness Sierra (+KC2, NB1)  
by Ron Majewski <majewski@erim-int.com>
- 8) [66161] HF Mobile Antenna in QST  
by Bill Jones <kd7s@psnw.com>
- 9) [66162] Re:HB:Low Phase Noise VFO  
by charles kadesch <chas@digizen.net>
- 10) [66163] Re: Cut Numbers  
by "Michael" <steam@megsinet.net>
- 11) [66164] Re: most enjoyed QRP construction project  
by Allan G Taylor <agtaylor@llnl.gov>
- 12) [66165] HEATH HW8 meter  
by Stuart Rohre <rohre@arlut.utexas.edu>
- 13) [66166] Garfield  
by Fran Flynn <fflynn@together.net>
- 14) [66167] OT: SLV/W6MMA Question  
by david gauding <nf0r@slacc.com>
- 15) [66168] K5RL CW Zero-beat PC boards  
by Roger Hightower <n7kt@worldnet.att.net>
- 16) [66169] re ALL BAND VERTICAL, wire type  
by Stuart Rohre <rohre@arlut.utexas.edu>
- 17) [66170] Celticon Delays  
by "George Dobbs" <g3rjv@gqrp.demon.co.uk>
- 18) [66171] Re: WWVB  
by "Randy Long" <oti@INF02000.NET>
- 19) [66172] Re: most enjoyed QRP construction project

- by "Dieter \ (Diz\ ) Gentzow WB8QYY" <wb8qyy@cinci.rr.com>
- 20) [66173] WTB: Ten Tec 206A xtal calibrator  
by "Tim Cook" <timcook@erinet.com>
- 21) [66174] Heil headset Mike wanted...  
by "dave dabay" <kd3pc@mindspring.com>
- 22) [66175] Re: [Elecraft] K5RL CW Zero-beat PC boards  
by "Jerry Henshaw" <jhenshaw@bellsouth.net>
- 23) [66176] FS-AUTEK QF-1A AUDIO FILTERS  
by "Dana Michael" <damichael@blazenet.net>
- 24) [66177] FS- SW40, SW30, SW+20 XCVRS  
by "Dana Michael" <damichael@blazenet.net>
- 25) [66178] FS- ANTENNA TUNER TUCKER T-1000  
by "Dana Michael" <damichael@blazenet.net>
- 26) [66179] FS SW 40-40  
by "BHUYCK" <BHUYCK@prodigy.net>
- 27) [66180] Re: most enjoyed QRP construction project  
by "Richard Clemens" <clemens@wvwc.edu>
- 28) [66181] WV on 30 m  
by "Richard Clemens" <clemens@wvwc.edu>
- 29) [66182] Atlanticon room to share  
by "William K. Harding" <k4ahk@ix.netcom.com>
- 30) [66183] Re: [Elecraft] K5RL CW Zero-beat PC boards  
by Roger Hightower <n7kt@worldnet.att.net>
- 31) [66184] RE: most enjoyed QRP construction project  
by Macstein@aol.com
- 32) [66185] ARRL Handbook wanted  
by Skip <longbeard@cybernet1.com>
- 33) [66186] Fox  
by "mail" <richqrp@home.com>
- 34) [66187] HW-8 meter info  
by tom whalen <wb5qyt@eFortress.com>
- 35) [66188] Re: OT:EAGLE from CADSOFT  
by KR0Y@aol.com
- 36) [66189] NC20 "UP FRONT IN QST"  
by J38AL@aol.com
- 37) [66190] My Favorite All Time QRP Construction Project  
by "Doug Hendricks" <ki6ds@dospalos.org>
- 38) [66191] Re: most enjoyed QRP construction project  
by "Frank Krozel" <frank@electronicinstrument.com>
- 39) [66192] Montana Fox  
by Roy <marion@montana.com>
- 40) [66193] QRQ Net Practice sentences.  
by Ed Loranger <we6w@qsl.net>
- 41) [66194] Free online 'scope skills seminar 3/30/00  
by PGSPersEng@aol.com
- 42) [66195] Re: most enjoyed QRP construction project  
by aa5yx@juno.com
- 43) [66196] Re: OT:EAGLE from CADSOFT

by KR0Y@aol.com

44) [66197] Re: OT:EAGLE from CADSOFT  
by KR0Y@aol.com

45) [66198] Re: K5RL CW Zero-beat PC boards  
by Roger Hightower <n7kt@worldnet.att.net>

46) [66199] Re: most enjoyed QRP construction project  
by Sam Smith <sam.smith@ece.gatech.edu>

47) [66200] FOX ed some DX!  
by "Steve/n0tu" <n0tu@webaccess.net>

48) [66201] Re: FOX: W1FB and 40 meters  
by "Edward A Kwik jr" <eakwikjr@hti.com>

49) [66202] Atlanticon  
by "Jim Kortge, K8IQY" <jokortge@prodigy.net>

50) [66203] 30 Meter QRPp DX  
by Curt Milton <wb8yyy@yahoo.com>

51) [66204] Stupid human tricks & the Dremel tool bit  
by nilsbull@juno.com

52) [66205] Re: most enjoyed QRP construction project  
by "Rod, N0RC" <n0rc@qsl.net>

53) [66206] Re: Fox  
by Bruce Rattray <rattray@gpfn.sk.ca>

54) [66207] AR QRP monday 80M net report  
by Jim Hale <kj5tf@yahoo.com>

55) [66208] 160M ssb 2-nite  
by ARDUJENSKI@aol.com

56) [66209] Re: Keycaps & LED's  
by Roger Hightower <n7kt@worldnet.att.net>

57) [66210] Re: WV on 30 m  
by "Victor Blackwell" <victor@brecnet.com>

58) [66211] 30 Meter QRPp DX  
by N10DL@aol.com

59) [66212] Re: SWAP: Randy Henderson xcvr boards+book for SWL  
by "Craig A. Ferris" <cferris@aeronix.com>

60) [66213] Thanks for the useful info...  
by Larry East <w1hue@amsat.org>

61) [66214] RE: Garfield  
by Larry East <w1hue@amsat.org>

62) [66215] HB: Phase noise  
by Torell Kent-P12255 <Kent\_Torell-P12255@email.mot.com>

63) [66216] Icom IC706MKIIG on QRP  
by Fairbairn Bob-C12509 <C12509@NAmerica.mot.com>

64) [66217] Re: HB: Low Phase Noise VFO  
by "Lau, Zack, W1VT" <z1lau@arrl.org>

65) [66218] 30 Meter QRPp DX  
by "Wilford D. Lindsey" <70511.3041@compuserve.com>

66) [66219] OT: Under The Wire: Native Extra!!  
by "Doug Hauff" <slmachco@fix.net>

67) [66220] Push-Push doubler for Snap ?

by "Miller, Richard J. (Norfolk)" <Richard.Miller@2asc.com>  
68) [66221] QRZ Tampa, St Pete  
by N0UR1@aol.com  
69) [66222] RE: Icom IC706MKIIG on QRP  
by Fairbairn Bob-C12509 <C12509@NAmerica.mot.com>  
70) [66223] Re: Atlanticon  
by "Paul Harden, NA5N" <na5n@rt66.com>  
71) [66224] Re: Icom IC706MKIIG on QRP  
by "Dan W. Dooley" <dandooley@pipeline.com>  
72) [66225] I'm Soooooooooooooo confused Re: UTC  
by RangerSF5@aol.com  
73) [66226] SMK-1: Update for Tuesday, Mar. 21st  
by "Doug Hendricks" <ki6ds@dospalos.org>  
74) [66227] Re: Garfield/American Morse  
by Wb8siw@aol.com  
75) [66228] LDG Z-11/AT-11 tuners  
by Michael Melland <badger@vbe.com>

-----  
Date: Mon, 20 Mar 2000 12:45:55 -0800  
From: "Barry L. Geipel AD6HR" <bgeipel@primenet.com>  
To: "Low Power Amateur Radio Discussion" <grp-1@Lehigh.EDU>  
Subject: [66154] TT-2 Technical Question  
Message-ID: <000c01bf92ad\$4a201fc0\$cbc9bbc0@cwil.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I have been reverse engineering the TT-2 as an exercise. I have run into my age old problem of not understanding input and output impedance of transistors. In the TT2, T1 transforms a 250ohm impedance to a 60ohm impedance. My question is, how do I know that the output impedance of Q2 is 250ohms? Can someone please help me, or at least point me to some texts that show how this value is derived?

Thanks in advance,

73,  
Barry - AD6HR

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Date: Mon, 20 Mar 2000 13:10:22 -0800  
From: Dave Barrett <DBarrett@creo.com>  
To: "'bill@pcatexas.com'" <bill@pcatexas.com>, Low Power Amateur Radio Discussion  
<qrp-1@Lehigh.EDU>, "'erics@elecraft.com'" <erics@elecraft.com>  
Subject: [66155] RE: most enjoyed QRP construction project  
Message-ID: <BFEFC3386986D2119C0800A0C99B5DE6017728FD@msgcreo3.creo.bc.ca>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"

Without a doubt the Elecraft K2.....

And I do build most of stuff normally from scratch but this is such and elegant little transceiver its just an excellent project and the manual is set up for beginners / first timers and experienced builders alike.....well worth the money.

(I sold my Icom 765 because the K2 is simply a better receiver!)

As for, after sales support / building problem support etc the Elecraft team are the best the market has ever offered.....and before anyone comments, I have absolutely no connection with Elecraft, I'm a 34 year plus electronic service tech who is very satisfied and impressed with the kit / process in its entirety.

Dave VA7DB (Ex VE7PCC) Vancouver BC Canada

-----Original Message-----

From: Bill Allen [mailto:bill@pcatexas.com]  
Sent: Monday, 20 March, 2000 11:34 AM  
To: Low Power Amateur Radio Discussion  
Subject: most enjoyed QRP construction project

Hi Gang,

I am interested in hearing what your most enjoyed QRP construction project as been lately. Not necessarily just trancivers, but any related construction of station equipement or antennas. I enjoy hearing your experiences and am always looking for new ideas.

: -)

73  
KC5ADF  
Bill Allen

-----

Date: Mon, 20 Mar 2000 15:07:30 -0600  
From: "George T. Baker" <w5yr@att.net>  
To: va3ldh@sympatico.ca  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [66156] Re: HB: Low Phase Noise VFO  
Message-ID: <38D69312.95293427@att.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Laura, hasn't the ARRL thrust re phase noise been in the area of the broad "hissy" transmit signals that it induces? I don't recall seeing much negative about effects on receiver performance, but I had formed the notion that the problem was on the transmit side of the house.

And hasn't all the negative comment been with PLL systems and the poorer DDS systems?

72/73, George  
Fairview, TX 30 mi NE Dallas in Collin county  
Amateur Radio W5YR, in the 54th year and it just keeps getting better!  
R/C since 1964 - AMA 98452 RVing since 1972 Kachina #91900556

-----  
Date: Mon, 20 Mar 2000 15:03:20 -0600  
From: "Joe Spencer" <kk5na@quadj.com>  
To: "QRP-L Discussion" <qrp-l@Lehigh.EDU>, <bill@pcatexas.com>  
Subject: [66157] Re: most enjoyed QRP construction project  
Message-ID: <001d01bf92afb9ba7540\$5901060a@us95305252>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

The K2!!!!!!!  
I have never enjoyed a building project so much! Nor have i worked on a construction project so well layed out, easy to understand, with an incredible support group available 365 days a year!.

72.3 Joe KK5NA  
QRP Consultant

----- Original Message -----  
From: Bill Allen <bill@pcatexas.com>  
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Sent: Monday, March 20, 2000 1:34 PM  
Subject: most enjoyed QRP construction project

> Hi Gang,  
>  
> I am interested in hearing what your most enjoyed QRP construction project  
> as been lately. Not necessarily just transceivers, but any related  
> construction of station equipment or antennas. I enjoy hearing your  
> experiences and am always looking for new ideas.  
>  
> :-)  
>  
> 73  
> KC5ADF  
> Bill Allen  
>  
>  
>  
>

-----  
Date: Mon, 20 Mar 2000 16:12:19 -0500  
From: "Victor Blackwell" <victor@brechnet.com>  
To: <bill@pcatexas.com>, "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [66158] Re: most enjoyed QRP construction project  
Message-ID: <001301bf92b0\$fad49b40\$4a5730d1@pavilion>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I put together Ten Tec 40 meter qrp rig. Loved it. Less than a hundred  
bucks. Works everything on the band.

Vic AD8K

-----Original Message-----  
From: Bill Allen <bill@pcatexas.com>  
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Date: Monday, March 20, 2000 3:29 PM  
Subject: most enjoyed QRP construction project

>Hi Gang,  
>  
>I am interested in hearing what your most enjoyed QRP construction project

>as been lately. Not necessarily just transceivers, but any related  
>construction of station equipment or antennas. I enjoy hearing your  
>experiences and am always looking for new ideas.

>

>:-)

>

>73

>KC5ADF

>Bill Allen

>

>

>

-----

Date: Mon, 20 Mar 2000 15:20:47 -0600

From: Michael Melland <badger@vbe.com>

To: bill@pcatexas.com

Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Subject: [66159] Re: most enjoyed QRP construction project

Message-ID: <38D6962F.2BC755AB@vbe.com>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

I think my most enjoyed qrp project so far was also the one where I learned the most. Saturday night I finished building one of (NN1G) Dave Benson's Small Wonder Labs SW+ for 40 meters. I had gathered all the material I could find on it's construction while utilizing the Elmer 101 series off the 'Net and set out Thursday to do the build.

Things went very, a quick call to Dave when I hit a minor snag on Saturday morning revealed a component change and slight manual change that further reading in Elmer 101 revealed was spotted by several builders back then. I also went ahead and added the RIT kit and experimented with components to regain the tuning range that I lost when I added the RIT. Dave's explanation of how to do this in his manual was right on and the result is a really nice small transceiver that functions beautifully. I looked at the wave forms and spectral display and it's nice.... and clean too.

So..... as a result I not only assembled a nice functional kit but thanks to the Elmer 101 series I also have a pretty good idea why and how it works as it does. With all the material on the series out there I can't imagine any kit builder who wants to "learn" while he builds not trying this series and this kit. I had put together several kits in the past..... mostly populating boards mindlessly <grin>..... but this time it was different. I really feel good about it..... it not only plays, but now I know why.



As an added bonus, I used the knowledge and confidence gained with this project to troubleshoot a nagging problem I had with my Ten-Tec 540 on Sunday..... and low and behold.... I was able to trace the problem to a bad component and now it's fixed too and working FB !

My advice to anyone out there is try Elmer 101..... and the SW+..... you'll never regret it and I guarantee you can't help but learn something from it that you just can't "get" by reading textbooks.

73 de Mike Melland, W9WIS

ps: Thanks to Dave Benson, NN1G and all of you who contributed to Elmer 101 and made the information available on the web !

-----  
Date: Mon, 20 Mar 2000 16:22:05 -0500  
From: Ron Majewski <majewski@erim-int.com>  
To: qrp-l <qrp-l@lehigh.edu>  
Subject: [66160] FS: Unbuilt Wilderness Sierra (+KC2, NB1)  
Message-ID: <38D6967D.9183BF47@erim-int.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Hello to all,

I've not been able to get to this and the situation isn't likely to change any time soon, so maybe someone will want this nice kit.

For Sale: An unbuilt Wilderness Radio Sierra QRP Transceiver Kit  
Includes 7, 14, and 21 MHz modules  
Kit is about 2.5 years old and is untouched

Includes: KC2 keyer/counter/meter  
KC2 front panel for the Sierra  
NB1 noise blanker

\$325 including shipping within the US

Terms: Money order up front

Contact: Ron (W8RU) majewski@erim-int.com

Thanks and 73!

-----  
Date: Mon, 20 Mar 2000 13:37:00 -0800  
From: Bill Jones <kd7s@psnw.com>  
To: qrp-l@lehigh.edu  
Subject: [66161] HF Mobile Antenna in QST  
Message-ID: <38D699FC.5F0DB62F@psnw.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

The homebrew HF mobile antenna in the April QST caught my eye. Has anyone built such an antenna? Yeah, I know, I could buy a Hamstick for \$24.95 but it just isn't the same as building your own.

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Bill Jones - KD7S <><  
Sanger, California  
<http://www.psnw.com/~kd7s>  
-----

-----  
Date: Mon, 20 Mar 2000 16:13:04 -0800  
From: charles kadesch <chas@digizen.net>  
To: qrp-l@lehigh.edu  
Subject: [66162] Re:HB:Low Phase Noise VFO  
Message-ID: <38D6BE8F.175504D4@digizen.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

References: "Phase Noise and its Effects on Amateur Communications" from QST (Mar 88, p 14 and Apr 88, p 22) and also in The ARRL Radio Buyer's Sourcebook (1991) p 1-6. One of the conclusions is that phase noise can significantly reduce the dynamic range of a receiver. An example: In the May 88 QST review of the Paragon's receiver (HF) it is stated that the limiting factor when listening to very weak signals adjacent to very strong signals (on this receiver) is receiver phase noise (even though the receiver has "fantastic" blocking dynamic range).

-72-

Chas W3KC

-----  
Date: Mon, 20 Mar 2000 17:18:26 -0600

From: "Michael" <steam@megsinet.net>  
To: <w8ln@ifreedom.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [66163] Re: Cut Numbers  
Message-ID: <004301bf92c2\$98e94b80\$35ced6d8@megsinet.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

This has even been taken a step further.

In contests where the op mentions power as part  
of the exchange, you'll hear 5TT, meaning 500.....  
Makes sense.....

<>< ><> ><< <>< ><< <>< ><< <>< <>< <>< ><  
Mike Pender Chicago N9IVO  
steam@corecomm.net <http://www.megsinet.com/~steam>  
><< <>< <>< ><< <>< ><< ><< <>< ><< ><< ><< <>

-----  
Date: Mon, 20 Mar 2000 15:22:10 -0800  
From: Allan G Taylor <agtaylor@llnl.gov>  
To: qrp-1@Lehigh.EDU  
Subject: [66164] Re: most enjoyed QRP construction project  
Message-ID: <38D6B2A2.1A56@llnl.gov>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

My most enjoyed construction project IS a transceiver. Actually  
that is THE TRANSCEIVER, an Elecraft K2.

73

Allan

--  
Allan Taylor K7GT agtaylor@llnl.gov  
DXCC/40CW DXCC 2000 Millenium award  
SOC #6 QRP ARCI #10146 HI/QRP #93

-----  
Date: Mon, 20 Mar 2000 18:04:56 -0500  
From: Stuart Rohre <rohre@arlut.utexas.edu>  
To: qrp-1@Lehigh.EDU

Subject: [66165] HEATH HW8 meter  
Message-ID: <38D6AE97.BD63CC85@arlut.utexas.edu>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

For Andy, and the several folks trying to help him find a replacement meter:

This weekend I found my "Heathkit" book, the comprehensive history and listing of all their kits by Chuck Pinson.

>From its photos, I was able to find this about the HW 8 meter:

It is very similar to the Korean made meters (and likely others from Taiwan, and Asia), still around, that have the rectangular meter face projecting out of the mounting panel and a plastic meter movement body, and mount by a clamp to the back of the panel, ie, no thru panel screw holes. (Furthermore, the HW 7 meter is an edgewise meter, and quite different mounting with a brass rectangular spring, with rectangle cutout for the edgewise meter).

Both, are simple Relative RF Output, (tune for max), meters on the transmitter circuit collector. Likely the metering circuit is just a diode coupling some power from the transmitter output stage, with a resistor to reduce the voltage within range of a 200 or 500 microamp meter movement. But by adjusting this one resistor, any one of a number of meter current scales could be used as a substitute, if the meter other wise fits the rectangular cutout. The HW8 ones have a tick marked scale with a no. 5 at the right (upper) end as the ONLY number.

Further examination of other Heathkit photos of the period of the HW8 and beyond, revealed Heath used the SAME meter in their Field Strength meter kit, which was a small box, with the rectangular cutout for a meter scale with tick marks and only the no. 5 at the scale end. It had a single binding post for a wire or whip antenna, and a single sensitivity knob. If anyone had one of those to give Andy, he could use its meter. They were first in the Heath green colored case, but might have also been made in the brown case. It is also small enough to mail to him at the small packet rate to Scotland, which I suggested to folks who had similar meter movements. The meter movement is probably 200 microamp full scale, and not likely to be more than 500 microamp, since it was sensitive enough for a field strength passive meter circuit. I have seen those go begging a ham swaps within the last five years, and almost bought one myself! (I did not realize then, the meter was the same as the HW 8 meter.)

Andy, I can likely figure typical resistor values for various meters from my HW 7 circuit, if you get some meters and folks tell you/ or you measure their max current range.

For doing that yourself, you put the unknown meter in series with a VOM

current scale like the AVO, at least 0-1 ma scale, or any DMM with DC current scales, and use a series pot connected as a rheostat, in series with an AA 1.5 volt DC penlight cell, (watch battery and meter polarity, look for the plus mark by one meter terminal, or the red wire, etc.) and start from max Resistance, and see if you get a readout on both meters. When you bring the unknown analog meter pointer up to max on its scale, by adjusting the rheostat, read the current magnitude off your seriesed VOM or DMM current scale.

Or, you can substitute a pot, for the fixed resistor in your HW8 RF output monitor circuit, (of the same value), and simply adjust it as a rheostat connected variable resistor to get adequate deflection at full power of your final with any new meter movement.

Now that I know the circuit is only for reading the maximum RF output voltage, that means the selection of a meter of a certain current range is less critical, because you can adjust the resistor to make various meters work.

Andy, was the clamp hardware for holding the original meter still inside your HW8? And do you have the HW8 manual and schematic now? We might have to draw you a picture of what metal clamp will hold this type of meter.

An alternate attachment solution, is to hot melt glue the replacement meter to the back of the panel, or use tape, epoxy, or "Duco" household glue, or "Pliobond" cement. I would just use a couple of spots of glue at the back of the panel at the edge of the meter. An ideal glue for this is bath tub caulk, or RTV silicon Rubber compound, sold as gasket making material for autos or window and door edge caulk. Just tape a meter in place with temporary "Scotch" or masking tape, and dab a couple places with RTV. It sets up tack free in an hour with any humid air, and fully cures to full strength in 24 hours.

Thanks folks, for the bandwidth, and for helping Andy get his HW8 back up.

72,

Stuart K5KVH

-----  
Date: Mon, 20 Mar 2000 19:14:03 -0500  
From: Fran Flynn <fflynn@together.net>  
To: qrp-l Discussion <qrp-l@Lehigh.EDU>  
Subject: [66166] Garfield  
Message-ID: <38D6BECB.EAD98149@together.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Apparently the code being sent was not "international" morse code as used in radio, but American or land line morse code like they use

(used?) for railroad. So, the cat knows some code, but I don't know how good his fist, or should I say "paw" is.

Fran Flynn, Km1z

-----  
Date: Mon, 20 Mar 2000 18:15:25 -0600  
From: david gauding <nf0r@slacc.com>  
To: qrp-l@lehigh.edu  
Subject: [66167] OT: SLV/W6MMA Question  
Message-ID: <3.0.6.32.20000320181525.0087c100@bbs.galilei.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Help!

Would the 9M (9K?) sending a question direct about the SLV/W6MMA coil please e-mail me again?

Sorry OM! I accidently deleted your message.

de Dave, NF0R      nf0r@slacc.com

-----  
Date: Mon, 20 Mar 2000 17:29:54 -0700  
From: Roger Hightower <n7kt@worldnet.att.net>  
To: ELECRAFT <elecrafft@qth.net>, QRP-L <qrp-l@lehigh.edu>  
Subject: [66168] K5RL CW Zero-beat PC boards  
Message-ID: <38D6C282.A2EC5623@worldnet.att.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

My board arrived today (the check is in the mail, Tom), and I'm about to order the replacement keycap for the K2. If you got the board from Tom Hammond and want a keycap, pse reply to this message and I can do a bulk order. All I need from you is an SASE and I'll get the cap out to you as soon as they come in.

Two things: A reply msg, so I know how many keycaps to order, and then mail me an SASE. Send it to:

Roger Hightower, N7KT  
1265 W. Kiowa Circle  
Mesa, AZ 85202

I figure it's easier to do it this way than a bunch of individual orders to DigiKey for one item.

BTW....Tom did a fine job on the board. Anxious to get started on it.

72..de Roger

--

72.....Roger

Roger Hightower, N7KT      Mesa, AZ   K2#591    SOC #14

-----  
Date: Mon, 20 Mar 2000 18:40:52 -0500  
From: Stuart Rohre <rohre@arlut.utexas.edu>  
To: qrp-l@Lehigh.EDU, n9ssa@arrl.net  
Subject: [66169] re ALL BAND VERTICAL, wire type  
Message-ID: <38D6B703.69D9E473@arlut.utexas.edu>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Wow,

With all those possible supports, you could hang low band wire verticals from your trees, as vertical dipoles, with a common feed or just hang one full sized vertical dipole for 40M, (66 feet) and feed its middle with ladder line.

That would go to your transmatch, to tune any band from 40 up, and probably work somewhat on 80. By hanging a second one about 88 feet long, as a 3/8 wave approximately vertical dipole, you should surely be able to tune 80, and maybe 160. By adding some horizontal or slant wire to the top, you would extend your ability on 160 by top loading. Again feed with ladder line and transmatch. The use of the vertical dipoles means you don't have to worry with radials, as the dipole is complete, furnishing its own image element.

The tower could be shunt or slant wire fed, and tuned to various low bands with the beam providing top loading for 80M or 160M. You would need to bond the grounded parts of the beam around the rotor, and bond the tower sections for best RF conduction, but you should already be doing that for lightning protection.

Finally, for the higher bands, individual vertical dipoles could be hung on

PVC outriggers from the tower, and tied off to stakes on the ground. Feed them with ladder line, for all bandwidth coverage. Since you are going to use a transmatch with ladderline feed, and since dipoles would resonate on individual bands, simply parallel all center feeders to a common down lead ladder line to transmatch at the shack. Twist the ladder lines every two feet for minimal interaction with the tower and anything else. The transmatch takes care of all matching.

Hope that gives you plenty of (low cost) options!

72, Stuart K5KVH  
Austin TX

-----  
Date: Mon, 20 Mar 2000 22:45:40 -0000  
From: "George Dobbs" <g3rjv@gqrp.demon.co.uk>  
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [66170] Celticon Delays  
Message-ID: <000801bf92cd\$475d21a0\$151d989e@kcubkvql>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

If anyone has had trouble with Celticon Bookings  
perhaps the text beneath will explain:

From: mai@mie.ie (Mai Ralph)  
Subject: celticon 2000 conference

hi david,

thank u for yr email dated today. my name is mai ralph and i am working in the director's office here in mie. i will be assisting in the organisation of the celticon 2000 conference - my sincere apologies for not getting back to you sooner - unfortunately due to pressure of work on another very large conference which takes place this week i have not been able to process the celticon 2000 delegates. i will be turning my attention to this task in the next 2weeks and you will here officially from me at that point - i trust this is satisfactory - again my apologies for this delay - meanwhile if you have any questions pls feel free to email me

best wishes,

Mai Ralph,  
Administrative Assistant,  
Marino Institue of Education,



Griffith Avenue,  
Dublin 9.  
Ph: 353 1 8057702  
Fax: 353 1 8335290

[thanks to Dave for the info]

George Dobbs G3RJV  
g3rjv@gqrp.demon.co.uk  
The G QRP Club  
[www.gqrp.com]

"It is vain to do with more  
what can be done with less"

William of Occum. 1290-1350

-----  
Date: Mon, 20 Mar 2000 17:49:15 -0700  
From: "Randy Long" <oti@INFO2000.NET>  
To: <QRP-L@lehigh.edu>  
Subject: [66171] Re: WWVB  
Message-ID: <004601bf92cf\$48e7ce60\$5557aecf@oemcomputer>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

FYI the pictorial you see on the web sight is better than what you are likely to see if you come here. WE have lots of folks who come thru Ft Collins to visit the site and generally there is no one there. They will generally, if you happen to catch them and you have a copy of your license let you look around if they happen to be there doing maintenance. Generally thats only a couple of days a week and in the summer, due to sever WX only in the AM hours. It is actually located on CO Hwy 1 about 4 miles north of Ft Collins or about 3.5 miles south west of Wellington (closest freeway exit from I-25).

Thought that might be of interest to folks who think of it a side trip as many have before.

Randy, W0AVV

-----  
Date: Mon, 20 Mar 2000 19:54:30 -0500  
From: "Dieter \((Diz\) Gentzow WB8QYY" <wb8qyy@cinci.rr.com>  
To: "QRP-L" <qrp-l@lehigh.edu>  
Subject: [66172] Re: most enjoyed QRP construction project

Message-ID: <011601bf92d0\$03d55a30\$4f171d18@cinci.rr.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

That's easy. The 1st and ONLY COMPLETE tranceiver I ever designed;  
the miniPIG-10. <http://www.mpna.com/fpqrp/minipig.html>

Imagine designing and building a 10 meter CW tranceiver from scratch;  
getting all the parts and xtals together after about two months, and finally  
connecting the antenna and powering up. Calling CQ and hearing your  
callsign coming from the speaker. 1st QSO was with FY/DJ0PJ Dave in Kourou,  
French Guiana. Received a 569 and sent a 579. Now that will give you goose  
bumps :-)

73 & "oo's" - Dieter (DIZ) Gentzow - WB8QYY  
Loveland, Ohio (Clermont County - EM79ug) - near Cincinnati; 39.218N -  
84.305W  
SOC#8 FPqrp#-1 DL-QRP-AG#1454 QRP-L#1998 10-X#9389 CATT#26 K2#493  
<http://home.cinci.rr.com/wb8qyy>

-----  
Date: Mon, 20 Mar 2000 20:04:02 -0500  
From: "Tim Cook" <timcook@erinet.com>  
To: "tentec" <tentec@contesting.com>, "QRP" <qrp-1@lehigh.edu>  
Subject: [66173] WTB: Ten Tec 206A xtal calibrator  
Message-ID: <022d01bf92d1\$59ab9360\$ab775acf@erinet.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Still looking for a 206A xtal calibrator for my Argonaut 515. Please email  
with details if you have one for sale.  
Thanks  
Tim  
NZ8J

-----  
Date: Mon, 20 Mar 2000 20:09:51 -0500  
From: "dave dabay" <kd3pc@mindspring.com>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Subject: [66174] Heil headset Mike wanted...  
Message-ID: <002c01bf92d2\$2a263e00\$5ad8cdcf@esprit>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Looking for a headset/mike, would prefer heil with a good cartridge for  
general activity...qrp, some dx, some ragchewing.

Have Omni-D and a TS-440s to use it with.

Let me know if you have something and what you want for it...

dave

-----  
Date: Mon, 20 Mar 2000 20:12:38 -0500  
From: "Jerry Henshaw" <jhenshaw@bellsouth.net>  
To: "Roger Hightower" <n7kt@worldnet.att.net>, "ELECRAFT" <elecraft@qth.net>,  
"QRP-L" <qrp-l@lehigh.edu>  
Subject: [66175] Re: [Elecraft] K5RL CW Zero-beat PC boards  
Message-ID: <000901bf92d2\$8e9e7500\$5e54d6d1@bellsouth.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Gang,

While you are at it, go ahead and order the LED for the  
key cap as well. I used a green one to match the K2  
color scheme.

Yes, Tom Hammond did a great job on the PC board.  
I've been using mine for several months now. The detector  
works great for me.

Good luck and 72's

Jerry  
KR5L

----- Original Message -----

From: Roger Hightower <n7kt@worldnet.att.net>  
To: ELECRAFT <elecraft@qth.net>; QRP-L <qrp-l@lehigh.edu>

Sent: Monday, March 20, 2000 7:29 PM  
Subject: [Elecraft] K5RL CW Zero-beat PC boards

> My board arrived today (the check is in the mail, Tom), and I'm about to  
> order the replacement keycap for the K2. If you got the board from Tom  
> Hammond and want a keycap, pse reply to this message and I can do a bulk  
> order. All I need from you is an SASE and I'll get the cap out to you  
> as soon as they come in.  
>  
> Two things: A reply msg, so I know how many keycaps to order, and then  
> mail me an SASE. Send it to:  
>  
> Roger Hightower, N7KT  
> 1265 W. Kiowa Circle  
> Mesa, AZ 85202  
>  
> I figure it's easier to do it this way than a bunch of individual orders  
> to DigiKey for one item.  
>  
> BTW....Tom did a fine job on the board. Anxious to get started on it.  
>  
> 72..de Roger  
> --  
> 72.....Roger  
>  
> Roger Hightower, N7KT      Mesa, AZ   K2#591    SOC #14  
>  
> ---  
> Submissions:            elecraft@qth.net  
> Please note: The list server automatically rejects HTML encoded emails.  
> List Archive page:    <http://www.qth.net/archive/elecraft/elecraft.html>  
> Elecraft Web Page:    <http://www.elecraft.com>  
>  
>

-----  
Date: Mon, 20 Mar 2000 20:10:27 -0500  
From: "Dana Michael" <damichael@blazenet.net>  
To: <qrp-1@lehigh.edu>  
Subject: [66176] FS-AUTEK QF-1A AUDIO FILTERS  
Message-ID: <000701bf92d2\$3effc440\$2370fea9@mike>  
MIME-Version: 1.0  
Content-Type: text/plain;  
              charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

FOR SALE:

AUTEK QF-1A AUDIO FILTER, IN GOOD CONDITION. \$45 SHIPPED

AUTEK QF-1A IN FAIR CONDITION (KNOB INLAYS ARE DULL) \$35 SHIPPED

THANKS,  
D.A. "MIKE" MICHAEL W3TS  
129 CHURCH LANE  
HALIFAX, PA. 17032  
1-717-896-3973 BETWEEN 5AND 10PM EST  
damichael@blazenet.net

-----  
Date: Mon, 20 Mar 2000 20:13:15 -0500  
From: "Dana Michael" <damichael@blazenet.net>  
To: <QRP-L@LEHIGH.EDU>  
Subject: [66177] FS- SW40, SW30, SW+20 XCVRS  
Message-ID: <000d01bf92d2\$a2dad0e0\$2370fea9@mike>  
MIME-Version: 1.0  
Content-Type: text/plain;  
    charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

FOR SALE:

SMALL WONDER LABS SW-40 IN 5"Lx4"Dx1"H CASE WITH CONTROLS ON TOP, FOR FIELD USE. \$85 SHIPPED

SMALL WONDER LABS SW-30 IN 6&1/8"Lx4&1/8"Dx2"H TEN-TEC STYLE CASE WITH CONTROLS ON FRONT, FOR DESK TOP USE. \$85 SHIPPED

SMALL WONDER LABS SW-20+ (SAME CASE STYLE AS THE SW-30) \$85 SHIPPED

THANKS,  
D.A. "MIKE" MICHAEL W3TS  
129 CHURCH LANE  
HALIFAX, PA. 17032  
1-717-896-3973 BETWEEN 5AND 10PM EST  
damichael@blazenet.net

-----  
Date: Mon, 20 Mar 2000 20:15:06 -0500  
From: "Dana Michael" <damichael@blazenet.net>  
To: <qrp-1@lehigh.edu>  
Subject: [66178] FS- ANTENNA TUNER TUCKER T-1000  
Message-ID: <001301bf92d2\$e4d1b7c0\$2370fea9@mike>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

FOR SALE:

TUCKER T-1000 ANTENNA TUNER/WATTMETER/ANTENNA SWITCH/DUMMY LOAD. VERY GOOD  
CONDITION. \$100

THANKS,  
D.A. "MIKE" MICHAEL W3TS  
129 CHURCH LANE  
HALIFAX, PA. 17032  
1-717-896-3973 BETWEEN 5 AND 10 PM EST  
damichael@blazenet.net

-----  
Date: Mon, 20 Mar 2000 19:31:43 -0600  
From: "BHUYCK" <BHUYCK@prodigy.net>  
To: "QRP-L" <qrp-1@lehigh.edu>  
Subject: [66179] FS SW 40-40  
Message-ID: <NDBBLNJFELBFIPKEIOHJIEPBCJAA.BHUYCK@prodigy.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Too many 40m rigs in the shack.

Small wonders lab SW40 - 1.5 watts out, with RIT option, in Ten Tec TG-24  
case.

Manuals for rig and RIT included. \$65 delivered in CONUS

Bruce KS4V  
Paducah, KY

-----  
Date: Mon, 20 Mar 2000 20:09:47 -0500  
From: "Richard Clemens" <clemens@wvwc.edu>  
To: <bill@pcatexas.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [66180] Re: most enjoyed QRP construction project  
Message-ID: <006d01bf92d6\$620c67a0\$0100007f@wvwc.edu>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

In the past few weeks I have built both the Ten-Tec 1320 and the Small Wonder Labs DSW-30. The DSW wins hands down on construction and especially on operation!

--  
Rich Clemens, KB8A0B  
clemens@wvwc.edu

----- Original Message -----  
From: Bill Allen <bill@pcatexas.com>  
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Sent: Monday, March 20, 2000 2:34 PM  
Subject: most enjoyed QRP construction project

> Hi Gang,  
>  
> I am interested in hearing what your most enjoyed QRP construction project  
> as been lately. Not necessarily just transceivers, but any related  
> construction of station equipment or antennas. I enjoy hearing your  
> experiences and am always looking for new ideas.  
>  
> :-)  
>  
> 73  
> KC5ADF  
> Bill Allen  
>  
>

>

-----  
Date: Mon, 20 Mar 2000 20:36:51 -0500  
From: "Richard Clemens" <clemens@wvwc.edu>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [66181] WV on 30 m  
Message-ID: <006f01bf92d6\$74481180\$0100007f@wvwc.edu>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

West Virginia on 30 meters, QRP  
2 watts Solar Power DSW-30  
10.106 - 10.110  
0200 UTC Tuesday (Monday 9 PM ET)

--

Rich Clemens, KB8AOB  
clemens@wvwc.edu

-----  
Date: Mon, 20 Mar 2000 20:44:42 -0500  
From: "William K. Harding" <k4ahk@ix.netcom.com>  
To: "qrp-1 mail" <qrp-1@lehigh.edu>  
Subject: [66182] Atlanticon room to share  
Message-ID: <200003210143.UAA10799@granger.mail.mindspring.net>  
Mime-version: 1.0  
Content-type: text/plain; charset="US-ASCII"  
Content-transfer-encoding: 7bit

I just found out today that my room mate for Atlanticon can not attend. I have one of the early bird registration suites with two separate bedrooms. If anyone is in need of a room, I will be glad to share my suite.

Bill Harding - K4AHK  
Burke, VA FM18

-----  
Date: Mon, 20 Mar 2000 18:47:44 -0700  
From: Roger Hightower <n7kt@worldnet.att.net>



To: Jerry Henshaw <jhenshaw@bellsouth.net>  
Cc: ELECRAFT <elecraft@qth.net>, QRP-L <qrp-l@lehigh.edu>  
Subject: [66183] Re: [Elecrafft] K5RL CW Zero-beat PC boards  
Message-ID: <38D6D4C0.99F50AD4@worldnet.att.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

OK..I can order the LED also, if you indicate in your reply that you want one.

--

72.....Roger

Roger Hightower, N7KT      Mesa, AZ   K2#591    SOC #14

-----

Date: Mon, 20 Mar 2000 20:53:23 EST  
From: Macstein@aol.com  
To: qrp-l@lehigh.edu  
Subject: [66184] RE: most enjoyed QRP construction project  
Message-ID: <38.38bd69e.26083013@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

In a message dated 03/20/100 3:36:29 PM EST, bill@pcatexas.com writes:

> I am interested in hearing what your most enjoyed QRP construction project  
> as been lately. Not necessarily just trancivers, but any related  
> construction of station equipement or antennas. I enjoy hearing your  
> experiences and am always looking for new ideas.

Hi Bill!

I'm having tons of fun this year! The K2 was a quantum leap in QRP kits, and was/is loads of fun. It is clearly the top "kit" in my book. Not so recently, I did the Elmer 101 class here online and enjoyed the SW40+ with that project. Mike M, Glen L, and Dave B, were super teachers.

However, the "best"??? I did the Manhattan 2n2 rig and learned more than all of the license studying put together! I'm hooked on Manhattan "from" scratch building now and really recommend that you try this style of building/learning. Let me know if I can help with parts/projects you are considering! (Even skeds to operate!)

-MAC-  
AF4PS

Odessa, FL

-----  
Date: Tue, 21 Mar 2000 19:10:47 -0700  
From: Skip <longbeard@cybernet1.com>  
To: qrp-1@Lehigh.edu  
Subject: [66185] ARRL Handbook wanted  
Message-ID: <3.0.6.32.20000321191047.007bb910@mail.cybernet1.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="iso-8859-1"  
Content-Transfer-Encoding: quoted-printable

Gang,

My daughter and I are in need of a '95 or newer ARRL Handbook. Anyone got the latest with an older one they would part with reasonably?

We have several older ones 40's to 91(Hardbound) we might want to trade too.

Qrp Tech stuff for her.

Thanks,

Skip, K=D8YWD  
Stevensville, Montana DN26  
SOC #38 QRP-C #146, QRP-L #2003, CQC #616, Zombie #641 =20  
=20

-----  
Date: Mon, 20 Mar 2000 18:14:28 -0800  
From: "mail" <richqrp@home.com>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [66186] Fox  
Message-ID: <002e01bf92db\$3026b740\$f5460418@elcjn1.sdca.home.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Is there a fox tonight? if so, could someone please give time and freq?  
Thanks, just got home and have not had my pc.

73's & 72's  
WD6FDD  
Rich Wilkerson, Santee, Ca

-----  
Date: Mon, 20 Mar 2000 16:01:24 -0700  
From: tom whalen <wb5qyt@eFortress.com>  
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [66187] HW-8 meter info  
Message-ID: <38D6ADC3.4F1D@eFortress.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Gang,

Who needed the meter for the HW-8? I think I can help you out.

72, Tom WB5QYT ...."Have spud will travel!"

-----  
Date: Mon, 20 Mar 2000 21:32:38 EST  
From: KR0Y@aol.com  
To: qrp-1@lehigh.edu  
Subject: [66188] Re: OT:EAGLE from CADSOFT  
Message-ID: <60.18aa4d9.26083946@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

In a message dated 3/20/00 7:31:58 AM Central Standard Time, w6toy@erols.com writes:

<< I have been using CIRCAD 98, for about six months now. It is also a free download. I don't think there are any limits to the board size, and it is very easy to use. >>

For hams who want to purchase the 'full' Circad package, there is a discount available, if purchased through W0VNE (Jay). Only hams can get this discount, and it is a substantial discount off of the 'regular' price.

I'm not involved with Holophase, or with Jay, but Circad is a good package and I just thought that others might be interested in knowing about this 'special' for hams.

John - KR0Y

-----

Date: Mon, 20 Mar 2000 21:46:24 EST  
From: J38AL@aol.com  
To: qrp-1@lehigh.edu  
Subject: [66189] NC20 "UP FRONT IN QST"  
Message-ID: <39.2a71805.26083c80@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

Gang,

"Up Front In QST" is the first place I go to and I see the NC20 made it there too. Thats great! Got a kick out of the "1/2 WATT Snack Shack" also. "Product Review" includes the RS HTX-10, and "QRP Power" highlights three kits, the RH20 being one of them.

The postman was good to me today. Besides receiving QST, he left me the FreqMites I ordered from SWL, the NJ club's QRP Homebrewer, and my first issue (# 101) of SPRAT. No time to be on the computer tonight.

73, Al N2ZHS  
Scotia, NY

-----  
Date: Mon, 20 Mar 2000 20:29:03 -0800  
From: "Doug Hendricks" <ki6ds@dospalos.org>  
To: <qrp-1@lehigh.edu>  
Subject: [66190] My Favorite All Time QRP Construction Project  
Message-ID: <005b01bf92ed\$fda337e0\$907d68cf@DougHendricks>  
MIME-Version: 1.0  
Content-Type: text/plain;  
          charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I have built most of the kits and rigs in the past 8 years, and without a doubt, the most fun was the "modern" Tuna Tin 2 that was redesigned for modern parts by Dave Meacham, W6EMD. For some reason, Dave has not received the credit due to him for his work. Dave Meacham did the work to make it possible to have a board available, and later a kit done by the NJ QRP Club using readily available parts today.

The thrill of recreating my very first qrp construction project just cannot be described. I loved it, and want to publicly thank Dave for his work. To give you an idea of how many others have built Tuna Tin 2's from his work, FAR Circuits has sold well over a thousand boards. NorCal gave away 100, we gave away 50 TT2/MRX receiver kits for Pacificon, and the NJ QRP Club is fast approaching 1000 kits sold, ALL based on the work of Dave Meacham.

That is a lot of transmitters that have been built, which would not have been possible without Dave's work. By the way, it was published in QRPP in 1997 as well as QQ. The recent article in QST failed to give any mention or credit to Dave, even though it was brought to their attention. Others have done much to popularize this rig, including Ed Hare who has done a great job of setting up operating events. I applaud him for his efforts. Others have been given credit or taken credit for Dave's work due to some misinformation. But rest assured, if you built a FAR Circuits board, or a NorCal Pacificon TT2/MRX kit, or a NJ QRP Club kit, you were walking on Dave Meacham's shoulders. He was the first to convert the older RS parts no longer available to the modern ones we have now. Others have copied his work, but Dave was the first. I would like to thank Dave Meacham and Doug DeMaw for giving me the greatest kit building experience that I have ever had.

If you want to build a fun kit, and don't want to break the bank, go to the NJ QRP Club web site and get the details to order your own Tuna Tin 2 kit, using the original round tuna tin sized board. The kit is only \$10 plus \$2 shipping and handling.

I have a connection with the NJ QRP Club. I am proud to say that I am a member, that I have attended one of their fantastic meetings, and I regret very, very much that I will be unable to attend Atlanticon this weekend, which by the way, is the QRP place to be on the East Coast. 72, Doug

-----  
Date: Mon, 20 Mar 2000 22:43:12 -0600  
From: "Frank Krozel" <frank@electronicinstrument.com>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [66191] Re: most enjoyed QRP construction project  
Message-ID: <001001bf92ef\$7e9d8c0\$e2b5dccf@kg9h>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I think the most fun kit I have EVER built is the Elecraft K2! Shades of the days the box came from Benton Harbor, and from what I read from others ( I'm not quite done with it yet) I will have a pretty great little transceiver. Not really a born and bread QRPer, although I have five little transceivers around the shack, I feel this rig will compete with the best of them, after I finish. Now that I am about done with it, I have slowed down, as I do see the finish line. Keep up the good work Elecraft. Would I recommend it to others? You bet! Fraank Krozel KG9H S/ N 906  
Oh, the others in the running I have include the Ten Yec 1340, 40 meter

transceiver and my great 1208, 6 meter transverter ( 25 states with a dipole in the attic), and a Norcal 40 ( endless hours of great QSO's on 40.)

-----  
Date: Sun, 19 Mar 2000 22:01:20 +0000  
From: Roy <marion@montana.com>  
To: qrp-l@lehigh.edu  
Subject: [66192] Montana Fox  
Message-ID: <4.3.2.20000319211005.00a768c0@mail.montana.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed

3-22-00 GMT @ 0200 GMT The Fox will be running for his life. Rig is K2 @ 5 watts to a 40mtr full wave loop, which under good conditions can work anywhere in North America. Under pressure I can only copy about 20 wpm, if that. I will definitely slow to your speed. I will be using the full plus or minus 1khz RIT swing, so your best bet is to SPREAD OUT. Send your call as much as you want until you hear me pick some one up, But don't send on my frequency, I won't hear you. I will start out around 7.042 or nearest QRM free spot. If the pack thins out at the end, I may spend the last 15 minutes on my frequency to try for some of the frequency bound guys, but don't count on it. I have a very hard time sorting calls out of a pileup. I will send your call first, AB7CE, signal report, MT, Roy, NR 1494, then your call again. TU means I got him and start calling. Will try to work as many as possible and have some fun. 73 Roy AB7CE

-----  
Date: Mon, 20 Mar 2000 21:58:05 -0800  
From: Ed Loranger <we6w@qsl.net>  
To: Randy Foltz <rfoltz@turbonet.com>, Ed Loranger <we6w@netzero.net>, Barney Waldrop <cbrlwaldrop@pullman.com>, nw7dx <BenNW7DX@aol.com>, Dan <ad6jy@aol.com>, Randy <t-ranch@humboldt1.com>, Wayne <NB6M@mer.win-net.org>, Bill <lite65@earthlink.net>, Dave N6RZ <drowley@writeme.com>,  
Subject: [66193] QRQ Net Practice sentences.  
Message-ID: <38D70F6D.AE9CAB41@qsl.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Here are the practice sentences for this week and hope

to air them out on Sunday during the net:

#1 Extremely thin antenna elements suffer high reactance off resonance.

#2 Efficient harmonic antennas must be end fed or at current loop.

#3 Expect feedline radiation when end feeding antennas due to moving current nodes.

Sentences from arrl antenna book, 1974, figures: 2-7, 2-8 and related material.

QRQ net: Sunday, 7:00 PM Pacific time, 7039 KHz <0300Z>

1. Callup stations and set list order.
2. Send first sentence from 20-29 wpm.
3. Send sentences 1 and 2 from 30-39 wpm.
4. All 3 sentences sent above 40 wpm.

Suggestion: Practice 1/2 to 1 hour each night. Log your highest character speed rate. Pay no attention to word speed. Get the characters formed well first.

Write down the alphabet and send in order, A-Z at each speed until you can go from A-Z without error. Discover and log characters of difficulty and work with those.

Grab some newspaper or books or articles and send, looking for troublesome letter combinations and work on those more.

Above all, find that it works and is fun.

See you on the net.

72/Ed we6w (On vacation for awhile...)

--

72/Ed we6w; A-1 OP; SOC#63; QRPL#1068

<http://www.qsl.net/we6w> Santa Rosa, CA

Brain, only as strong as its weakest think.

-----

Date: Tue, 21 Mar 2000 02:10:38 EST  
From: PGSPersEng@aol.com  
To: QRP-L@lehigh.edu  
Subject: [66194] Free online 'scope skills seminar 3/30/00  
Message-ID: <2.1c49878.26087a6e@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

Hi gang,

The following press release crossed my desk, and I thought some of you might be interested.

72,  
Paul G Schreier      AA1MI      Rye, NH  
aa1mi@ARRL.net  
QRP-L #360      WAS/QRPP (<1W)      DXCC/QRP  
President, Port City ARC (W1WQM)

## Online Seminar Offers Engineers Opportunity to Optimize Oscilloscope Skills

Chestnut Ridge, NY - For immediate release.

Engineers can learn how to optimize their oscilloscope skills by attending an online interactive seminar scheduled for Thursday, March 30 at 10:00 a.m. Pacific Standard Time. The free seminar on advanced oscilloscope techniques, to be held at [www.netseminar.com](http://www.netseminar.com), is a perfect way for design and test engineers involved in the analysis of electronic circuits to receive a personal consultation on how to get the most out of their oscilloscopes.

Michael Lauterbach, Ph.D., director of Product Management for LeCroy Corporation, will lead the seminar. Engineers who use any oscilloscope from any manufacturer will find the seminar beneficial because the topics are focused on generic uses and capabilities. Among the topics Dr. Lauterbach will discuss include achieving maximum system accuracy of the amplifier/ADC, spotting timing/jitter problems using real-time parameter trend lines, developing insights from histogramming of signal data, and troubleshooting noise and modulation effects using frequency-domain (FFT) information. Optimizing sampling rate and acquisition memory as well as capturing/measuring intermittent signals will also be discussed.

There will be a 30-minute technical presentation followed by 30 minutes of on-line Q&A with Dr. Lauterbach. Through this session, Dr. Lauterbach can offer insight on how engineers can use their existing oscilloscopes to solve



their exact testing needs.

Engineers are encouraged to register in advance and download the RealPlayer audio utility in order to be prepared for the seminar. You can register for the advanced 'scope skills seminar by visiting [www.netseminar.com](http://www.netseminar.com) or by visiting LeCroy's website ([www.lecroy.com](http://www.lecroy.com)) until March 30.

#####

-----  
Date: Tue, 21 Mar 2000 04:55:28 -0500  
From: aa5yx@juno.com  
To: qrp-1@Lehigh.EDU  
Subject: [66195] Re: most enjoyed QRP construction project  
Message-ID: <20000321.045531.4670.0.aa5yx@juno.com>

I'm working on a project right now to integrate several kits together to make a self contained all-in-one-box QRP station. The heart of it will be my SST30 (minus the case). Keeping it company will be a W1FB-designed 5 watt amp, tuner/SWR meter from QRP Classics, KC1 keyer, paddles, mounts for 10 AA-cells and a seperate compartment for antenna wire. I'm trying to put all this into the smallest case possible.

The easy part was building each individual kit. The tough part is making them get along with each other, especially the amp & RF switching circuitry. This project was also the reason for my recent question about ground loops.

Another project that's caught me eye is Jim Kortage's online design of a 15 meter transceiver using 2N2222 transistors as often as possible. I wish I had the url with me but I'm at work right now and don't have it bookmarked here.

John Harper AA5YX/2  
HW-9, OHR-100A/20, NC40A, SST30, SST40, DSW20  
Outdoor QRP Page: <http://home.att.net/~j..harper>

-----  
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<http://dl.www.juno.com/get/tagj>.

-----  
Date: Tue, 21 Mar 2000 07:28:53 EST  
From: KR0Y@aol.com

To: ka7you@juno.com, qrp-1@lehigh.edu  
Subject: [66196] Re: OT:EAGLE from CADSOFT  
Message-ID: <7a.2eb0f51.2608c505@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

In a message dated 3/20/00 11:43:17 PM Central Standard Time, ka7you@juno.com writes:

<< Just how do we get in touch with Jay W0VNE about the Circad software?  
Should we call Holophase and ask for him, or contact him somewhere else? >>

You need to contact Jay, directly. Part of the reason that this 'deal' is available, is that all support for the product, if purchased this way, is handled by Jay, instead of Holophase. Jay was involved in writing part of the program, at one time, and apparently has known the owner of Holophase for some time, and so was able to 'swing' this deal with him. At least, that's my understanding.

One way to get in touch with Jay is to reach him through the Circad Onelist. Go to [www.onelist.com](http://www.onelist.com), and register with them (it's free) and then search for the Circad 'community'. Onelist is a really cool email list server, from where thousands of email lists are hosted. Jay set one up for Circad.

If you have trouble finding the Circad Onelist, let me know and I'll find Jay's direct email address.

John - KR0Y  
Springfield, Missouri

-----  
Date: Tue, 21 Mar 2000 07:38:35 EST  
From: KR0Y@aol.com  
To: ka7you@juno.com, qrp-1@lehigh.edu  
Subject: [66197] Re: OT:EAGLE from CADSOFT  
Message-ID: <33.2b75e09.2608c74b@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

In a message dated 3/20/00 11:43:17 PM Central Standard Time, ka7you@juno.com writes:

<< Just how do we get in touch with Jay W0VNE about the Circad software?  
Should we call Holophase and ask for him, or contact him somewhere else? >>

Here's the easiest way to get to the Circad Onelist to join. Go to:

[www.onelist.com/community/circad](http://www.onelist.com/community/circad)

There, you can join the list.

Also, you can reach Jay at:

[w0vne@arrl.net](mailto:w0vne@arrl.net)

Hope this helps.

John - KR0Y

-----  
Date: Tue, 21 Mar 2000 05:51:32 -0700  
From: Roger Hightower <n7kt@worldnet.att.net>  
To: ELECRAFT <elecraft@qth.net>, QRP-L <qrp-l@lehigh.edu>  
Subject: [66198] Re: K5RL CW Zero-beat PC boards  
Message-ID: <38D77054.39D62334@worldnet.att.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Many of you want to include \$\$ with your SASE. It's not really necessary, because we're not talking about big money here.

The keycaps are going to be sixteen cents, and the led's thirty-eight cents. Not enough for a buck, and not worth throwing change in.

If you want more than one each, a buck or so would do it. If it's just one, don't worry about it.

I'll send the order to Digikey tomorrow, after the digest readers have had a chance to respond.

--

72.....Roger

Roger Hightower, N7KT      Mesa, AZ   K2#591    SOC #14

-----  
Date: Tue, 21 Mar 2000 08:11:42 -0500  
From: Sam Smith <sam.smith@ece.gatech.edu>  
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [66199] Re: most enjoyed QRP construction project  
Message-ID: <38D7750E.DD982DF5@ece.gatech.edu>

MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

I built a homebrew QRP antenna tuner from ideas in Demaw's QRP books. 80-10 meters with switchable 1:1 and 1:4 baluns and LED SWR indicators.

I never expected it to work and am absolutely amazed that it does. It's not pretty, but I'm proud of it...

--

Sam Smith N4MAP  
Georgia Tech, ECE 0250, Atlanta, GA USA 30332  
<http://www.ee.gatech.edu/users/sam>  
<http://www.mindspring.com/~sam.smith>

-----  
Date: Tue, 21 Mar 2000 06:12:31 -0700  
From: "Steve/n0tu" <n0tu@webaccess.net>  
To: "QRP-L" <QRP-L@lehigh.edu>  
Subject: [66200] FOX ed some DX!  
Message-ID: <00fe01bf9337\$1da992c0\$5448460f@snp.webaccess.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
          charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Wow, Just worked Cayman Islands on 30m w/QROp = 5W (...a big thrill for this OT!)

I put up a bisquare for 40m. I'm feeding it w/450 ohm line through a Z-match ATU. My favorite 40m freq was busy. So I bounced up to 30m. and loaded up the bisquare. It seems to hear better than my 820' skywire loop and that's usually a good sign.

Heard a familiar sound "hounds chasing a fox" (hmmm.) I took my time listening and then listened some more. I figured out where the DX stn was listening by zero beating the hound last worked and called him. He then sent ?TU. I got 'em!!!! got a 579 ...not bad?Sure was FUN! But what a thrill to use a skill you've just learned and have it work!! DUH!

Thanks to messing w/all those FOX hunts this last season my learning curve on DX chasing isn't so steep. You old pros may think no great revelation here. Maybe? But until the light goes on there's no one home. But you see doc I have this trouble keeping my light "on"....am I the only one?

Steve/n0tu

-----  
Date: Wed, 15 Mar 2000 13:27:52 -0500  
From: "Edward A Kwik jr" <eakwikjr@hti.com>  
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [66201] Re: FOX: W1FB and 40 meters  
Message-ID: <38CFD628.76674596@hti.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

How about a summer fox season on 20 meters. Same times and rules?

Ed AB8DF

Gary Lee Phillips wrote:

>  
> Couldn't hear W1FB between 0300 and 0400Z at all in  
> Northern Illinois, though I could hear a few people  
> calling and fewer actually succeeding.  
>  
> At about 0408Z I began to hear him (my guess is he  
> switched rigs as predicted.) However, the noise and  
> QRM was so horrendous that I became discouraged and  
> gave up at 0430 (way past my bedtime anyway.) I was  
> using an HW-8 and a long wire with a transmatch, which  
> I admit is not going to be as successful as some other  
> configurations might (though I worked W1FB during the  
> "super-secret" event without much trouble using the  
> same equipment.)  
>  
> Combined with the posts yesterday about 15m. (my favorite  
> band) I wonder, not for the first time, why we seem  
> to focus so much QRP effort on 40m. It just seems like  
> a poor choice for so many reasons. QRM from phone and  
> SWBC stations, high QRN levels, crowded conditions in  
> a narrow band that put foreign digital signals right on  
> top of 7.040, etc. etc. 20m. suffers from a lot of the  
> same, plus worse crowding.  
>  
> I would think 30m. should be a better choice for QRP use  
> for lots of reasons, not the least of which is no phone  
> signals. My own experience has shown 18m. to also have  
> tremendous potential and far less QRM. 15, 12, and 10m.

> are also good, though perhaps less so at night during  
> low sunspots than right now.  
>  
> Are we clinging to 40m. mostly for historic reasons? Or  
> are there continuing causes that keep QRP events from  
> moving to higher frequencies?  
>  
> -- Gary Phillips, Marengo, IL <mailto:ka9nzi@arrl.net>  
> KA9NZI, Seneca Twp., McHenry Co., IL Grid: EN52rg  
> QRP-ARCI #5154 <http://www.netcom.com/~fuffle/>

-----  
Date: Tue, 21 Mar 2000 08:55:11 -0500  
From: "Jim Kortge, K8IQY" <[jokortge@prodigy.net](mailto:jokortge@prodigy.net)>  
To: [qrp-l@lehigh.edu](mailto:qrp-l@lehigh.edu)  
Subject: [66202] Atlanticon  
Message-ID: <3.0.1.32.20000321085511.007c6580@pop.prodigy.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Greetings all,

XYL Kathy, KB8IMP and I are on our way out east, and will arrive at Atlanticon headquarters tomorrow, Tuesday in the late afternoon. Sure excited about seeing everyone who is coming to this event. I've got two 2N2/40's, two 2N2/6's, one partially completed 2N2/15, and some smaller, but interesting goodies with me for show and tell Friday evening. My SNAP is also going along!

See you all there, and have a safe journey to and from the event.

72 and kind regards to all.....Jim, K8IQY

-----  
Date: Tue, 21 Mar 2000 05:56:12 -0800 (PST)  
From: Curt Milton <[wb8yyy@yahoo.com](mailto:wb8yyy@yahoo.com)>  
To: Low Power Amateur Radio Discussion <[qrp-l@Lehigh.EDU](mailto:qrp-l@Lehigh.EDU)>  
Subject: [66203] 30 Meter QRPp DX  
Message-ID: <20000321135612.4338.qmail@web2003.mail.yahoo.com>  
MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

30 meter propagation is good! last evening I heard ES1WN CQ on 10.121 MHz and he returned my first call. rig is a "stock" 38S (i suspect mine is putting out a half watt or more) and the antenna is an off-center fed dipole. give this band a try - i have also had some nice close in contacts (~ 300 miles away) that have also surprised me.

72, Curt WB8YYY

-----  
Do You Yahoo!?  
Talk to your friends online with Yahoo! Messenger.  
<http://im.yahoo.com>  
-----

Date: Tue, 21 Mar 2000 13:58:59 +0000  
From: nilsbull@juno.com  
To: QRP-L@lehigh.edu  
Subject: [66204] Stupid human tricks & the Dremel tool bit  
Message-ID: <20000321.140013.-220081.1.nilsbull@juno.com>  
MIME-Version: 1.0  
Content-Type: text/plain  
Content-Transfer-Encoding: 7bit

Gang,

Blink. Blink. Twinge. Blink. Twinge. That's been the scene here since Saturday mid morning. And it weren't like I'd missed the concert, either. The humor is in my trying to save money.

I was out in the outhouse trying to mate the shaft of a rotary switch with the shaft of a stepping rotor that I'd picked up from Roger's Midwest Surplus &c place. The job was going pretty good, even if I did have to take my glasses off once in a while to get to what I was trying to get to. The usual "press on regardless" scenario.

Well, by Saturday afternoon I'd finished off half a bottle of Visine. By Monday morning it was obvious that I was in need of a medico. So, since my personal physician had moved (or had been moved by the university's higher command structure in pursuit of appropriateness & money lines), I had to go to a local "urgent care" place. Which worked out ok, 'cause the doctor who saw me saw my problem immediately & removed the small piece of "foreign matter" that had laid itself out into the part of your eye where

the light comes thru &c. But he sent me to an opthamologist to get the rest of it out.

Enter the same doctor who, some 20 years ago, operated on my eldest son's eyes. We discussed Gabriel Garcia Marquez, Latin American lit, the language of magical realism, the little spot in my eye what needed fixed up. Really a neat guy. The philosopher opthamologist eye surgeon.

A couple drops of topical anesthetic, a few seconds with a ultrasonic doodad & the stuff what the first doctor had been reluctant to remove was gone. Just a small divet in my eye what feels like hell now, four days from Saturday.

And every time I got this question: "Were you wearing safety goggles?"

You know the answer. I was trying to save money. I was tryin' to save time. I ordered the LDG auto tuner a few minutes ago.

Want another lesson? Look, I typed this with one eye covered. Is that a hint or what?

73

Nils

-----

Nils R. Bull Young -- El Gringo Errante -- La Estancia de los Guajolotes Sonrientes

<http://www6.50megs.com/w8ijn> -- W8IJN -- <http://members.xoom.com/nilsbull>

"In MY day we had to FIGHT to have signatures! Every DAY was a STRUGGLE!"

-- Comrade Nikolai Sergeievich

McTovarishov, 19 Oct 1917

-----  
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<http://dl.www.juno.com/get/tagj>.

-----

Date: Tue, 21 Mar 2000 07:17:14 -0700

From: "Rod, N0RC" <n0rc@qsl.net>

To: <bill@pcatexas.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Subject: [66205] Re: most enjoyed QRP construction project

Message-ID: <009701bf9341\$f5905f20\$b7101004@compaq>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"



Content-Transfer-Encoding: 7bit

Bill:

I find it impossible to pick just one, so allow me to share this:

(1) Nothing can top the thrill I had building and operating my first kit ever, an OHR 100A for 20M. (Nor my first rig ever, a 2 tube 30W novice TX built in the 60's)

(2) Nothing can top the satisfaction of completing a NorCal 20 for another ham who could not finish it. Helping others has special rewards. (Long story, off list if you're interested.)

(3) Nothing can top the feeling of accomplishment with anything I build. With each one I learn something new, and with each item I strive for a new level of craftsmanship. (antennas, NC20 (3), NC40 (2), DSWxx (2), SW-40 (1), K2 & accs.... then list goes on)

Notably: The TT2 was fun because of it's link to the past; The K2 was satisfying because of its complexity. The simple SNAP enjoyable for it's educational value. Every I've ever built was a goal achieved, each was a lesson. I like to study the schematics and read the theory of operation. I go beyond just building the kit I want to understand how and why it works.

Building things today is sort of a reverse on what I did as a kid, take things apart to see how they work. But I still do that to. ;-)

---

72/3 Rod, N0RC -- Fort Collins, CO

----- Original Message -----

From: Bill Allen <bill@pcatexas.com>

To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

Sent: Monday, March 20, 2000 12:34 PM

Subject: most enjoyed QRP construction project

> Hi Gang,

>

> I am interested in hearing what your most enjoyed QRP construction project

> as been lately. Not necessarily just transceivers, but any related

-----  
Date: Tue, 21 Mar 2000 08:42:56 -0600 (CST)  
From: Bruce Rattray <rattray@gpfn.sk.ca>  
To: mail <richqrp@home.com>  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [66206] Re: Fox  
Message-ID: <Pine.LNX.3.95.1000321084226.20011B-1000000@neale.gpfn.sk.ca>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

the last fox is AB7CE, Roy, Montana, 0200Z...good luck to all.....

..72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683 Zombie#272  
A-1 Operator Club - 10/10# 944 - SOC #11 & #12 - Whiner#10 -  
"QRP! How sweet it is!" "I am da man wit "DAH" paddle!"

On Mon, 20 Mar 2000, mail wrote:

> Is there a fox tonight? if so, could someone please give time and freq?  
> Thanks, just got home and have not had my pc.  
> 73's & 72's  
> WD6FDD  
> Rich Wilkerson, Santee, Ca  
>

-----  
Date: Tue, 21 Mar 2000 06:55:59 -0800 (PST)  
From: Jim Hale <kj5tf@yahoo.com>  
To: QRP-L <qrp-l@Lehigh.EDU>  
Cc: Bob Schill <n9zz@centuryinter.net>  
Subject: [66207] AR QRP monday 80M net report  
Message-ID: <20000321145559.23195.qmail@web701.mail.yahoo.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii

Good net last night. Condx were excellent again.  
Here is the dope on the net:

Checkins - K5ID - 5 watts; KC0DX - 5 watts; N5SAN - 5  
watts; W0LK - 5 watts; N0WM - 5 watts; KC0M - 5 watts;  
KJ5TF - 3 watts; NQ5RP/N9ZZ - 5 watts

It was reported that Hamfests are being visited by  
several of the members and now that the wx is getting  
better the hamfests will become popular.

Jim, KJ5TF, is getting his feet wet in PSK 31 and seems as though he is impressed.

A comment was also expressed that some of the people hesitate to join in on the net because the CW speed is too high. I would like to remind everyone again that if you check in at whatever speed you are comfortable at the NCS will adjust the speed to match yours so you are not left out. If no one joins in the NCS has no way of knowing you would like to do so. So, if you would like to join in, and I hope you do, just call at your speed and the speed will be set accordingly. We will be looking for you!

The AR QRP 80M net meets every monday evening on 3.560MHz at 7:30PM central time.

Bob N9ZZ AR QRP #1, net NCS

=====

<http://www.madisoncounty.net/~kj5tf/>  
Milliwatting Editor ARCI QRP Quarterly  
Join/renew membership QRP Amateur Radio Club International  
<http://www.qrparci.org/arcijoin.html>  
AR QRP#2 - Kingston, Arkansas 35.94N 93.47W  
Private email [kj5tf@madisoncounty.net](mailto:kj5tf@madisoncounty.net)

-----  
Do You Yahoo!?  
Talk to your friends online with Yahoo! Messenger.  
<http://im.yahoo.com>

-----  
Date: Tue, 21 Mar 2000 10:12:11 EST  
From: ARDUJENSKI@aol.com  
To: [nwq-1@scn.org](mailto:nwq-1@scn.org), [qrp-1@lehigh.edu](mailto:qrp-1@lehigh.edu)  
Subject: [66208] 160M ssb 2-nite  
Message-ID: <3f.252001c.2608eb4b@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

The 160M band has been opening up between coasts recently. Last nite you could even hear some ZL stations. There are surprisingly several stations running 25 watts or less SSB for local groups.

If you would like to join me I will be around on 1.975 tonite 0500Z (2100 PST).

ALAN KB7MBI

-----  
Date: Tue, 21 Mar 2000 08:23:08 -0700  
From: Roger Hightower <n7kt@worldnet.att.net>  
To: ELECRAFT <elecraft@qth.net>, QRP-L <qrp-l@lehigh.edu>  
Subject: [66209] Re: Keycaps & LED's  
Message-ID: <38D793DC.D09AE7DB@worldnet.att.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

OK, folks. Here's the list for keycaps and LED's as of 1500Z 3/21/2000:

WH7N  
VE3VAW  
W1CG  
N0DT  
KA8MAA  
K8NDP  
WA60IA  
W3FPR  
WA3WSJ  
KG9H  
N2CAU  
NN5B  
WB1DOG  
N4EO  
KK5NA  
N0HJ  
WB2ART  
W1HUE  
AF4PS  
N2JTW  
NN7CK  
KS4L  
W4BLD  
N1ZSW  
N0TU  
AA10F  
K5OI  
WA7U  
K4TJD  
W03B

W4WYT  
KF3DQ

I'll add to that as requests come in.

If you ordered \_more than\_ two sets, pse include \$2.00 with your SASE.  
For only one or two sets, don't worry about it.

For everyone, if I don't get the SASE you don't get the parts. Send it to:

Roger Hightower, N7KT  
1265 W. Kiowa Circle  
Mesa, AZ 85202

I'll order the parts on 3/22, and hope to start sending them out on 3/27.

--

72.....Roger

Roger Hightower, N7KT      Mesa, AZ   K2#591    SOC #14

-----

Date: Tue, 21 Mar 2000 10:33:52 -0500  
From: "Victor Blackwell" <victor@breynet.com>  
To: <clemens@wvwc.edu>, "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>  
Subject: [66210] Re: WV on 30 m  
Message-ID: <000601bf934a\$dd07c480\$5b5730d1@pavilion>  
MIME-Version: 1.0  
Content-Type: text/plain;  
          charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Rich,

I called you several times after Ten am on about 10109 khz. Then I tuned down to about 106 and heard you calling "CQ" by the time I got there and called you, you were gone.

You were 599 plusity plus in SW Ohio. Your two watts roars.

Let's get hooked up later. I will be listening around on and off today.

Vic AD8K

-----Original Message-----

From: Richard Clemens <clemens@wvwc.edu>

To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Date: Monday, March 20, 2000 10:42 PM  
Subject: WV on 30 m

>West Virginia on 30 meters, QRP  
>2 watts Solar Power DSW-30  
>10.106 - 10.110  
>0200 UTC Tuesday (Monday 9 PM ET)  
>  
>--  
>Rich Clemens, KB8A0B  
>clemens@wwwc.edu  
>

-----  
Date: Tue, 21 Mar 2000 10:46:48 EST  
From: N10DL@aol.com  
To: qrp-l@lehigh.edu  
Subject: [66211] 30 Meter QRPp DX  
Message-ID: <38.38ef541.2608f368@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

This is fast becoming my favorite band. I seem to be able to make contacts at all times of the day. Have spent lots of time on the band since I built my DSW-30 rig. This rig is so much fun to use and is great for traveling. Am usually on the band later in the evening just before I head up for bed. The other nice thing about this band is NO CONTESTS are allowed. I do enjoy contests, but it is nice to be able to go somewhere on the contest weekends and have some room for ragchew contacts.

Aron  
N10DL  
Bedford, NH  
FISTS#4110 SOC#10 QRP-L#1326 G-QRP#9946

-----  
Date: Tue, 21 Mar 2000 11:38:13 -0500  
From: "Craig A. Ferris" <cferris@aeronix.com>  
To: qrp-l@Lehigh.EDU  
Subject: [66212] Re: SWAP: Randy Henderson xcvr boards+book for SWL  
Message-ID: <38D7A575.E08E375B@aeronix.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

boards and book are spoken for.

Thanks,

Craig  
NR4E

-----  
Date: Tue, 21 Mar 2000 09:38:59 -0700  
From: Larry East <w1hue@amsat.org>  
To: qrp-l@lehigh.edu  
Subject: [66213] Thanks for the useful info...  
Message-ID: <3.0.5.32.20000321093859.0097a6c0@mail.ida.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

I want to thank those of you who have posted the interesting information on phase noise, and the few others who have posted real QRP related items the last couple of days. The signal to noise content of this list seems to be getting lower and lower, but at least there is still a little useful information to be found...

Please folks, unless you want this to turn into a "bitch and gripe" list only, take your rantings unrelated to the main purposes of this list elsewhere!!

72, Larry W1HUE/7

-----  
Date: Tue, 21 Mar 2000 09:18:17 -0700  
From: Larry East <w1hue@amsat.org>  
To: qrp-l@lehigh.edu  
Cc: "Dan W. Dooley" <dandooley@pipeline.com>  
Subject: [66214] RE: Garfield  
Message-ID: <3.0.5.32.20000321091817.00976670@mail.ida.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

>Anyone checked out the opening panel of Garfield today?

>

>Not too sure about the (R) symbol however.....

>

That's the "Continental Morse" symbol for "R" ... In the original Morse

code, several characters differed only by the "dot" spacing. How would you like to have to copy that at 30wpm? :-)

72, Larry W1HUE/7

-----  
Date: Tue, 21 Mar 2000 09:57:11 -0700  
From: Torell Kent-P12255 <Kent\_Torell-P12255@email.mot.com>  
To: "'qrp-l'" <qrp-l@lehigh.edu>  
Subject: [66215] HB: Phase noise  
Message-ID: <6D3B40A2556FD2118B0D0008C7BA848C033B11D3@az25exm01.geg.mot.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"

I've debated weighing in on the subject, but a few brief comments are in order. Phase noise is an issue for both high dynamic range systems, and for low bit rate digital modulation systems. As far as high dynamic range, the current ARRL Handbook does an adequate job of explaining the problem. For frequency synthesis, Rhode's book isn't too bad, but I prefer Manassewitsch, "Frequency Synthesizers". He has a short discussion on the HP 8662 low phase noise synthesizer, which has very good phase noise performance. It takes 6 PLL's to do this, though. In general, a single loop pll will have poorer performance unless it has large step sizes (greater than 1 MHz). Good balanced design is always a compromise; the K2 works great, yet uses a fairly simple pll system. Wayne and Erik hit the 'sweet spot' of having all the components designed for the same performance requirements, and the rig works great.

DDS systems have lots of discrete-type spurious, as well as a noise floor that is set by the numerical algorithm used and the D/A converter resolution/performance.

The best performance easily achievable by homebrewers is a medium deviation VCXO; when coupled with a high dynamic range mixer (like the Tayloe) and appropriate designed amplifiers and filtering. A point solution is always easier to do with high performance, like a single band qrp rig, cw mode, qrp tuning range. We can come up with rigs that run circles around a 'larger' commercial radio, which has to support all frequency HF operation, multi-modes, etc. What I like about HB is the ability to do a first-class point design. I also learn something from every radio I do...

Kent Torell AB70A p12255@email.mot.com  
Motorola SSG Scottsdale, AZ 85252  
480-675-2003(phone) 480-441-8400 (fax)



-----  
Date: Tue, 21 Mar 2000 11:56:41 -0600  
From: Fairbairn Bob-C12509 <C12509@NAmerica.mot.com>  
To: "QRP List (E-mail)" <qrp-l@Lehigh.EDU>  
Subject: [66216] Icom IC706MKIIG on QRP  
Message-ID: <034D8B328BD3D311BDC0009027E33C17033921@il06exm22.corp.mot.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"

I was just thinking that my main radio the 706 would make a pretty good qrp radio. I have not tried turning it down all the way to see what low power is but it might be low enough??? Has anyone seen any qrp mods for the 706??? Anyone else using the 706 for QRP?

The one problem is standby current drain is very high. It is not a K2 or a NORCAL 40.

Bob Fairbairn KF90A

-----  
Date: Tue, 21 Mar 2000 12:57:01 -0500  
From: "Lau, Zack, W1VT" <zlau@arrl.org>  
To: qrp-l@Lehigh.EDU  
Subject: [66217] Re: HB: Low Phase Noise VFO  
Message-ID: <125490A005E3D3118C9C00805FC743CC041D61@mail.arrl.org>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"

Techniques to try:

Power devices- CP643 JFET? paralleling 2N5486s?

High Q coils-big air core inductors can have Qs in excess of 700.

High Q capacitors-porcelain chip caps, welded split stator capacitors  
(look at the techniques for small transmitting antennas)

Reducing the thermal noise floor-liquid nitrogen cooling?

If you have an oscillator around 100 MHz, one technique for measuring phase noise is to multiply it to 10 GHz, using designs used for 10 GHz transverters. The close-in noise will degrade by 40 dB, making it much easier to measure.

Sorry, I don't plan to publish any circuits-I don't have an application for a VFO significantly better than -158 dBc/Hz at 10 kHz offset.

73-Zack W1VT

-----  
Date: Tue, 21 Mar 2000 13:06:50 -0500  
From: "Wilford D. Lindsey" <70511.3041@compuserve.com>  
To: "INTERNET:wb8yyy@yahoo.com" <wb8yyy@yahoo.com>  
Cc: "W.D.(Doc)Lindsey/K0EVZ" <70511.3041@compuserve.com>, QRP-L Discussion Group  
<QRP-L@Lehigh.edu>  
Subject: [66218] 30 Meter QRPP DX  
Message-ID: <200003211309\_MC2-9DF5-1635@compuserve.com>  
MIME-Version: 1.0  
Content-Transfer-Encoding: 7bit  
Content-Type: text/plain;  
          charset=us-ascii  
Content-Disposition: inline

Curt and Gang:

Curt, many congrats on this great catch. Fun, isn't it? And sure 'nuf, 30  
Metres is jumping.

Everyone, note how \*high\* on the band Curt found this DX. I have also  
worked considerable DX up this high, particularly JA's. A person could get  
fooled into thinking they are lower, say around 10.104 or so.

Just my \$.02 worth.

72,

--Doc Lindsey/K0EVZ  
DSBF  
PO BOX 6028  
Bismarck, ND 58506  
(Shipping: DSBF, 2020 Lovett Ave, Bismarck, ND 58504)  
K0EVZ@arrl.net

-----  
Date: Tue, 21 Mar 2000 10:45:38 -0800  
From: "Doug Hauff" <slmachco@fix.net>  
To: <qrp-l@LeHigh.edu>  
Subject: [66219] OT: Under The Wire: Native Extra!!  
Message-ID: <200003211842.KAA05500@clark.fix.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=ISO-8859-1

Content-Transfer-Encoding: 7bit

Proibly not P.C. with all this fooforaw going on about the new regs, but too bad - I squeeaaaaaked thru the 20 WPM test this weekend to make Native Extra before the regs change!! Yahoooo!!

72, Doug Hauff KE6RIE

-----  
Date: Tue, 21 Mar 2000 13:40:55 -0500  
From: "Miller, Richard J. (Norfolk)" <Richard.Miller@2asc.com>  
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [66220] Push-Push doubler for Snap ?  
Message-ID: <F7FBDC61D54CD311A89000105A6BCAB5024496@ascnf01.nf.2asc.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"

Hello All:

I have been looking at my snap kit that was sent to me by George for Alanticon. After reading some other literature on this type of construction I noticed a circuit for a Push-Push doubler. It would appear to me that if I put the double in line after the SNAP transmitter, with the 3.579 MHz crystal; I should end up some where around 7.150 MHz. Has any one tried this ? Look forward to hearing any comments on the subject.

V/R,

Richard J. Miller, II  
K04NX

-----  
Date: Tue, 21 Mar 2000 14:19:35 EST  
From: NOUR1@aol.com  
To: qrp-l@lehigh.edu  
Subject: [66221] QRZ Tampa, St Pete  
Message-ID: <ab.18c31c7.26092547@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"

Content-Transfer-Encoding: 7bit

The family and I are going to be in the Tampa, St Pete area next week. I can only stand so many days "on the beach" and thought it may be nice to meet any fellow QRP-L types who are in the area. Maybe even visit a shack and hear what it sounds like from that part of the world.

Jim, NOUR the pale fellow from MN

-----

Date: Tue, 21 Mar 2000 13:23:40 -0600  
From: Fairbairn Bob-C12509 <C12509@NAmerica.mot.com>  
To: Fairbairn Bob-C12509 <C12509@NAmerica.mot.com>, Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [66222] RE: Icom IC706MKIIG on QRP  
Message-ID: <034D8B328BD3D311BDC0009027E33C17033925@il06exm22.corp.mot.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"

Wow what a response, I have gotten 8 emails from users of 706s' Thanks.

My home station is battery powered and I monitor the battery pretty closely. The 706 does like the watts. I guess it is a poor man's K2. Not a backpacker radio for sure. But from the emails stable at low power! Thanks for the responses.

Bob Fairbairn

-----Original Message-----

From: Fairbairn Bob-C12509 [mailto:C12509@NAmerica.mot.com]  
Sent: Tuesday, March 21, 2000 11:57 AM  
To: Low Power Amateur Radio Discussion  
Subject: Icom IC706MKIIG on QRP

I was just thinking that my main radio the 706 would make a pretty good qrp radio. I have not tried turning it down all the way to see what low power is but it might be low enough??? Has anyone seen any qrp mods for the 706??? Anyone else using the 706 for QRP?

The one problem is standby current drain is very high. It is not a K2 or a NORCAL 40.

Bob Fairbairn KF90A

-----  
Date: Tue, 21 Mar 2000 12:34:01 -0700 (MST)  
From: "Paul Harden, NA5N" <na5n@rt66.com>  
To: "Jim Kortge, K8IQY" <jokortge@prodigy.net>  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [66223] Re: Atlanticon  
Message-ID: <Pine.SUN.4.10.10003211223470.16448-1000000@shell.rt66.com>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Tue, 21 Mar 2000, Jim Kortge, K8IQY wrote:

> Greetings all,  
>  
> I've got two 2N2/40's,  
> two 2N2/6's, one partially completed 2N2/15, and some  
> smaller, but interesting goodies with me for show and  
> tell Friday evening. My SNAP is also going along!

It would be worth the trip to Atlanticon, just to see Jim's handiwork.  
He has this Manhattan style thing down to a fine science and a true  
work of art.

Jim's work on the 2N2/40, 2N2/6, and his current 2N2/15 project is  
legendary. He's a real "common sense" type of designer, but also very  
careful in analyzing and testing his designs, ensuring his rigs are  
easy to build by others, duplicating the same performance, etc.

I have listened to Jim's talk at HamCom and PacifiCon. He goes through  
each stage very carefully and explains things excellently. The standing  
room only crowd testifies to how well received it was. Atlanticon has  
a stellar lineup this year, and you will be well entertained and  
educated by attending all of the sessions. And holding Jim's 2N2/40  
in your hands and marvelling at the work is worth the trip in itself.  
He has redefined building-from-scratch, and guaranteed it will inspire  
you to change your whole tactics when building your next project!

> See you all there, and have a safe journey to and from  
> the event.

Have a safe trip Jim, and to all attending. Sorry I can't make it this  
year. The NJQRP fellas sure put on a good show and put in a lot of  
hard work to make it such a nice, enjoyable affair.

72, Paul NA5N

-----  
Date: Tue, 21 Mar 2000 13:27:00 -0600  
From: "Dan W. Dooley" <dandooley@pipeline.com>  
To: <C12509@NAmerica.mot.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [66224] Re: Icom IC706MKIIG on QRP  
Message-ID: <003901bf936b\$baa62e60\$04987b7b@dooleydw>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Bob, mine stays QRP. In the "L" position keydown CW it reads 3 watts. A little lower on 10 meters.

My disclaimer is that my wattmeter is an old Drake WH7. Accuracy?

Dan W. Dooley WB5TKA Bedford, Texas EM12ku  
e-mail to: dandooley@pipeline.com  
May Goddes love blest ye alle  
SOC#198  
"Ancient Pistol, I do partly understand your meaning."

----- Original Message -----

From: Fairbairn Bob-C12509 <C12509@NAmerica.mot.com>  
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Sent: Tuesday, March 21, 2000 11:56 AM  
Subject: Icom IC706MKIIG on QRP

> I was just thinking that my main radio the 706 would make a pretty good  
> qrp  
> radio. I have not tried turning it down all the way to see what low power  
> is but it might be low enough??? Has anyone seen any qrp mods for the  
> 706??? Anyone else using the 706 for QRP?  
>  
> The one problem is standby current drain is very high. It is not a K2 or  
> a  
> NORCAL 40.  
>  
> Bob Fairbairn KF90A

-----  
Date: Tue, 21 Mar 2000 15:09:44 EST  
From: RangerSF5@aol.com  
To: qrp-l@lehigh.edu  
Subject: [66225] I'm Soooooooooooooooooo confused Re: UTC  
Message-ID: <bd.1d220a0.26093108@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

Hi Gang,  
Well this dummy is having problems with UTC time.  
Now last week a east coast op was the fox at 0100 to 0300 UTC,(8 to 10 PM) EST.  
>From the ARRL chart in front of me here that is correct.  
Now when WE6W was doing the test with the new rig he gave the time in UTC and told me he'll be on the air in 20 minutes,(7:30 PM EST).(1 hour off for me)  
Because of this I'm missing the FOX.  
Now do I take The east coast time (spring ahead and fall back into consideration?)  
To convert to UTC, I have to add 4 hours so 8:PM will be 4 hours ahead and that comes to 0000UTC.  
But the FOX gives the time as 0100 UTC and thats 8PM here.  
I'm getting lost on an hour here and can't figure what i'm doing wrong.  
So my BIG question is why does the ARRL book say that 8:PM is 0000UTC and the fox is on at the same time but list the starting time in UTC as 0100?..  
The first time I bagged the fox,Dave N2ZHY had me on 2 meters and told me what I had to do.  
The person did come back to me but in the excitement I gave the wrong QRP-L number.  
Now this is the last fox and I don't want to miss it.  
I'll be running my ARK-3 from a 12 V battery and appx. 3 watts.  
Can anyone tell me why the official ARRL chart is 1 hour off?  
Thank you  
Bob  
WA2HQrp <tm>

-----  
Date: Tue, 21 Mar 2000 12:04:02 -0800  
From: "Doug Hendricks" <ki6ds@dospalos.org>  
To: <qrp-l@lehigh.edu>  
Subject: [66226] SMK-1: Update for Tuesday, Mar. 21st  
Message-ID: <00c301bf9370\$9b6e98c0\$907d68cf@DougHendricks>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"

## Content-Transfer-Encoding: 7bit

We are on schedule with the SMK-1 kit, but not without some scares along the way. Dave Fifield, AD6A, the designer, had ordered the SA612AD chips (surface mount package of course) from Advent Marshall. The lady said they had 351 pieces on hand and would ship the rest of the order in 2 weeks. That was two weeks ago. No problem right? Well, Dave got the chips last week, and instead of 351, there were only 151. We had to use several in testing and prototyping, leaving only about 140 for kits. He contacted Advent Marshall and asked where the rest of the chips were. The lady said, oops, sorry about that, guess I transposed some numbers. Well, when do we get the rest of them? She says that there is new information and that the chips will be delivered in 13 weeks. 13 WEEKS!!!!!!!!!!!!!! Dave immediately contacted me, and we went to work on it. I called Paul Harden when I couldn't do any good locating them, and he said he would do what he could. Meanwhile, Dave was also searching. Independently they both came up with the answer yesterday. Advent Marshall had 2000 pieces of SA602AD, which is for all practical purposes the same chip as far as we are concerned. Paul called yesterday with the good news, right after Dave called to let me know that he had the rest of our order on the way. Whew!! What a relief.

The boards went to the board house last night after a final, final check by Dave. We should have them in two weeks.

I called the crystal manufacturer and our crystals are scheduled to arrive in the US on March 29th and should arrive in Dos Palos the first week of April.

The bottom line is that barring any further snafu's, the kits should ship in mid April. Thanks to everyone for their patience. By the way, we are over 350 on orders so far. We are still taking orders, you can get one by going to: [www.redhotradio.com](http://www.redhotradio.com) and clicking on the SMK-1 button. There you will find full ordering information, pictures of the kit and a schematic.

Remember, this is the first of the surface mount kits to be offered by NorCal. The cost of this kit is \$30 plus \$4 shipping to US. It is NOT the full featured transceiver that we are coming out with later this summer for 10 meters. It is a kit designed to get you familiar with surface mount construction and give you a usable transceiver when finished. The kit has over 80 parts, with over 70 of them surface mount. No special equipment other than tweezers, fine tipped soldering iron, and magnification if needed (round illuminated magnifying lamp, flip down magnifiers, your wife holding the magnifying glass while you solder, etc.) Dave built the prototype without any magnification at all.

Those of you going to Atlanticon will get to see a prototype in the custom designed matching case being offered by the NJ QRP Club. Dave sent a



prototype to them yesterday.

Again, thanks for your patience and understanding. We all dodged a bullet thanks to the great work by Dave and Paul. Sure wish that the parts girl had known that the SA602AD was a direct sub for the SA612AD, it would have saved us a weekend of anguish. 72, Doug

-----  
Date: Tue, 21 Mar 2000 15:20:06 EST  
From: Wb8siw@aol.com  
To: w1hue@amsat.org, qrp-1@lehigh.edu  
Subject: [66227] Re: Garfield/American Morse  
Message-ID: <ac.2b3ccb4.26093376@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

Hi Larry:

Not really a QRP subject, but believe it or not, American Morse is a considerably "faster" code. Because of such spaced letters as R, C, Z, and so forth, many of which consist of all "dots," it's possible to send traffic somewhat faster than with the American Morse Code.

Consider a phrase such as "see her Irish eyes." In American Morse Code, this phrase consists of all dots! Such a phrase is actually easier to copy at 30 wpm in American Morse Code (assuming equivalent proficiency on the part of the op! hi.)

The same is true for the numbers. Unlike International Morse Code (also properly called "Continental Code"), the American Morse numbers are also shorter. For example, the numeral one is "di-dah-dah-dit" and the zero is the "long dash."

One of the reasons the Railroads, Western Union and others kept the American Morse Code was this significant speed advantage.

Of course, the American Morse Code is great for train orders and telegrams handled on land-lines, but I suspect it would have been a problem on radio circuits. Consider the potential errors associated with spaced letters and three different lengths of "dash" on a noisy radio circuit! LOL.

By the way, although many hams don't realize it, we CW ops do use some American Morse, probably during every QSO. Consider the following prosigns:

"AR" (di-dah-di-dah-dit). This is really "FN" ("Finished") in American Morse.

"SK" (di-di-di-dah-di-dah). This is really "30" in American Morse. 30 comes from the same list of numerical codes that give us "73," "88," and so forth (Western Union numerical codes) and means "no more" or "end."

"AA" (di-dah-di-dah). This is the American Morse Comma used on NTS traffic nets at the end of each line of the address.

The "di-di-di-dah-dit" some operators send during a conversation was originally sent as "13" in American Morse, which is the code for "I understand." Over time, the hams dropped the numeral "one" but kept using the numeral "three" which is "di-di-di-dah-dit" in American Morse.

All of these traditions, like 73, 88, etc., date back to the earliest days of Ham Radio when the code commonly used by many hams was American Morse. If I recall correctly, it wasn't until about 1909 (?) that the International Morse Code we use today was adopted as the standard for radio work.

73, Jim WB8SIW

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Date: Tue, 21 Mar 2000 14:34:58 -0600  
From: Michael Melland <badger@vbe.com>  
To: qrp-l@lehigh.edu  
Subject: [66228] LDG Z-11/AT-11 tuners  
Message-ID: <38D7DCF2.51F1901A@vbe.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Anyone have any experience good or bad with the LDG automatic tuners. I'm thinkng of building one and was looking for some input. I have an Emtech but am thinking the automatic tuner would be good especially when operating mobile....and besides it's another kit to build <grin>.

Is the newer Z-11 worth the extra \$20 for the locking relays ? Sounds like it would be very power friendly.

73 de Mike Melland, W9WIS

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End of QRP-L Digest 1767

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